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ABSTRACT

The measurement of self concept and motivation of children ages 3 to 6 with an interview instrument is not an easy task. It has been accomplished with middle income, suburban children before. However, this same interview did not work well with low income, urban preschoolers. This study presents the preliminary psychometric work on a new interview instrument to measure self concept and motivation in preschool children, Children's Self-Concept and Motivation Assessment. This instrument is based on Motivational Systems Theory, which takes an integrative, comprehensive approach. It is adapted from the Assessment of Academic Self-Concept and Motivation, an instrument for adolescents. The initial psychometric work on the Children's Self-Concept and Motivation Assessment is very promising. (Author)



Children's Self-Concept and Motivation Assessment: Initial Reliability and Validity

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Abstract

The measurement of self-concept and motivation of children aged 3 to 6 years with an interview instrument is not an easy task. It has been accomplished with middle income, suburban children before. However, this same interview did not work well with low-income, urban preschoolers. This study presents the preliminary psychometric work on a new interview instrument to measure self-concept and motivation in preschool children, Children's Self-Concept and Motivation Assessment. This instrument is based on Motivational Systems Theory, which takes an integrative, comprehensive approach. It is adapted from the Assessment of Academic Self-Concept and Motivation, an instrument for adolescents. The initial psychometric work on the Children's Self-Concept and Motivation Assessment is very promising.



Children aged 3 to 6 years have thoughts about themselves or self-referent beliefs. They may think of themselves as good or bad at academics (Stipek, Feiler, Daniels, and Milburn, 1995), able to master their environment or not (Smiley and Dweck, 1994). or competent or not (Harter and Pike, 1984). They may believe themselves to be more competent in one area than another (Harter and Pike, 1984). And just like older children and adults they are more motivated by tasks in areas where they perceive themselves to be more competent (Harter & Pike 1984 and Smiley & Dweck, 1994).

Measurement of children's self-referent beliefs (self-concept) and motivation has taken many forms. Some researchers have measured self-referent beliefs or self-concept with an interview. However, this proved not to work well with low income, urban preschoolers (Fantuzzo, McDermott, Manz, Hampton, and Burdick, 1997). Motivation has mostly been measured in children aged 3 to 6 years in experimentally controlled situations (Smiley & Dweck, 1994). However, the authors believe that it is possible to measure both self-concept and motivation in children aged 3 to 6 years from urban and rural environments in one interview.

Statement of the Problem

Measurement of self-concept and motivation is problematic when working with young children aged 3 to 6 years for two reasons. One reason is the fact that motivational theories are evolving. Another reason is because even though children have thoughts about themselves, children's notions of self are limited as a result of limitations in their cognitive development during this period (Case, 1985). The present proposal seeks to address these problems by utilizing a comprehensive and integrative theory of motivation and embedding



measurement in concrete situations for the creation of Children's Self-Concept and Motivation Assessment (CSCMA).

Prior Interview Instruments

The main instrument for measuring self-concept in young children assesses perceived competence and social acceptance and was developed by Harter and Pike (1984). Harter and Pike's (1984) instrument is an interview for 4 to 7 year-olds that asks questions about pictures. Physical and cognitive competence combine to make one scale, while peer and maternal acceptance combine to make another scale. This instrument was developed with middle-class mostly European American subjects. Later use of this instrument showed that it did not work well with low-ses, urban subjects (Fantuzzo, Mc Dermott, Manz, Hampton, and Burdick, 1997).

Current Instrumentation

Ford's Motivational Systems Theory (MST) is the basis for the CSCMA. MST espouses the belief that motivation consists of the patterning of goals, emotions, and personal agency beliefs. Personal agency beliefs are beliefs about ability and beliefs about environmental support. The CSCMA measures personal agency beliefs and other self-referent beliefs; therefore, it is titled a measure of self-concept and motivation undergirded by MST (Ford, 2000). MST states that personal agency beliefs are an integral part of motivation (Ford, 1992). It is through personal agency beliefs that motivational patterns are created. Personal agency beliefs may be strong or medium or weak. This combination of beliefs about ability and beliefs about environmental support form to create motivational patterns. Bandura (1990) proposes a similar connection between self-efficacy (self-referent beliefs) and



motivation. Simply put, Bandura (1990) believes that stronger self-efficacy beliefs lead to stronger motivational orientations. Personal agency beliefs and self-efficacy beliefs are all self-referent beliefs or, in other words, a part of children's self-concept.

The CSCMA is also innovative in that it seeks to embed interview questions in concrete situations. The children are asked questions about four dimensions of learning activities while they are participating freely in the activity areas. A child may also be directed to an activity for purposes of demonstration if he or she is not familiar with the item or if they do not freely approach an item.

Participants

The participants in this project are 117 preschool children. Fifty are males, 65 are females, and for 2 children the parents did not report gender. One of the children was actually almost 3-years-old. Twelve of the children were 3-years-old; 3 were 3.5-years-old: 24 were 4-years-old; 10 were 5-years-old; and 67 did not have age reported. All of the children were in preschool, though. Fifty-two of the children came from a rural area and 65 came from an urban area. Fifty-three were European American; six were African American; 3 were Hispanic; one reported mixed or other ethnic heritage; and 54 of the parents did not report ethnicity.

Procedure

Participants were solicited from five child care programs. They were interviewed with the CSCMA in a playroom by themselves about five learning activity dimensions while being allowed to play freely in that area. As they approached a learning activity, they were questioned about it. Participants may have been directed to learning activities for purposes of demonstration if they did not freely approach the activity or to familiarize them with the



activity. The five learning activity areas were cognitive, social, language, motor, and creative.

The subscales and five scales of the CSCMA were submitted to internal consistency reliability procedures using Cronbach's alpha. Each of the five scales had five subscales. A principal components factor analysis with varimax rotation was performed on the items. Results

A preliminary form of the instrument was created that would be refined into the final version. The creative, social, and language scales all contained five subscales of five items each. The preliminary version of the instrument included 10 cognitive items with five subscales, while the motor scale had 11 items with five subscales. The motor scales were removed from the final instrument due to poor internal consistency estimates and poor correlational relationships with the other scales of the instrument. Additionally, the cognitive items were reduced from 10 to 5. The items with stronger relationships with the other scales and with stronger internal consistency estimates were retained for final analysis. It was determined that the items that were removed from the instrument had poor psychometrics partly due to the age of the participants and the tasks that were involved. The tasks were at times either too easy or too difficult for the children to complete and therefore deemed inconsistent with the remaining tasks on the final version of the instrument.

Internal consistency reliability was estimated using Cronbach's coefficient alpha and are shown in Table 1. The cognitive subscales had internal consistency relaibilty estimates of .91 to .98, while the total cognitive scale score's estimate was .97. The social subscale scores had internal consistency reliability estimates of .78 to .89, while the total social scale's estimate was .95. For the language subscales the estimates ranged from .92 to .99 and the



language total scale estimate was .96. The creative subscales had a range of .62 to .86 in reliability estimates, with four of the five subscales ranging from .81 to.86. The reliability estimate for the total creative scale was .92.

A principal components factor analysis with varimax rotation was performed on 100 selected items. Because of the limited number of subjects in comparison to the number of items included in the analysis, this factor analysis was done for descriptive purposes only. The results of this factor analysis are found in Table 2 highlighting the structure coefficients that were greater than .50.

Three factors were extracted accounting for 50% of the total variance. Factor 1 of the solution (eigenvalue=34.61 included items from the social and creative scales. Factor 1 also included questions from the language scale that related to speaking words. Facotr 2 included all items from the cognitive scales as well as the items from the language scale related to speaking sentences. Factor 2 had an eigenvalue of 8.25. Factor 3 had an eigenvalue of 7.18. It consisted of the remaining items from the language scale.

Conclusion

The initial reliabilities and factorial validity are promising. The fact that the social and creative items were on the same factor is interesting. This may be because there is an element of social interaction when a preschool child completes activities such as dramatic play and making music. The split in the language items suggests the influence of social interaction and cognition in language activities. More subjects being interviewed in the future may yield even more promising results. For instance, the social and creative items may load on separate factors.



It seems that self-concept (self-referent beliefs) and motivation can be measured in children aged 3 to 6 years. The theory utilized in this proposal and the method of interviewing created results that demonstrated initial reliability and validity. It is also significant that the participants for this proposal came from rural and urban environments.



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Table 1

Cronbach Alpha Internal Consistency Reliability Estimates

Scale	Subscale	Reliability
Cognitive		.97
Total		
	Cognitive 2	.95
	Cognitive 3	.98
	Cognitive 4	.91
	Cognitive 5	.97
	Cognitive 6	.97
Language		.96
Total		
	Language 1	.92
·	Language 2	.98
	Language 3	.96
	Language 4	.97
	Language 5	.99
Social Total		.95
	Social 1	.78
	Social 2	.79
	Social 3	.89
	Social 4	.90
	Social 5	.89
Creative		.92
Total		



Creative 1	.82
Creative 2	.84
Creative 3	.86
Creative 4	.62
Creative 5	.85



Table 2
Rotated Structure Coefficients for the Exploratory Factor
Analysis

Item	Factor	Factor	Factor
	1.	2	3
cog2	0.149	0.688	0.130
abil			
cog2	0.112	0.763	0.149
adul	·		
cog2	0.198	0.713	0.168
cont			
cog2	0.177	0.772	0.044
impr			
cog2	0.122	0.738	0.103
like			
cog3	0.157	0.740	0.140
abil			
cog3	0.158	0.752	0.148
adul			
cog3	0.237	0.708	0.182
cont			
cog3	0.227	0.743	0.181
impr			
cog3	0.208	0.752	0.149
like			



coal	0.407	0.581	-0.148
cog4 abil	0.407	-U.UU.I	-0.1-0
cog4	0.397	0.625	-0.033
adul	0.001	U.U.Z.U	0.000
cog4	0.504	0.560	-0.064
cont	U.UU 1	0.000	-0.00-
	0.413	0.489	-0.050
cog4	0.413	0.409	-0.030
impr	0.435	0.421	-0.249
cog4	0.433	0.421	-0.249
	0.066	0.723	0.153
cog5 abil	0.000	U.120	0.133
	0.062	0.784	0.150
cog5	0.002	U.704	0.130
adul	0.040	0.000	0.426
cog5	0.213	0.826	0.136
cont	0.047	0.705	0.440
cog5	0.247	0.795	0.149
impr	0.400	0.000	0.404
cog5	0.166	0.833	0.121
like	0.000		0.000
cog6	0.263	0.750	0.200
abil			0.015
cog6	0.172	0.689	0.245
adul		1 (8° - 8° 4°	
cog6	0.263	0.743	0.239
cont			
cog6	0.269	0.670	0.273
impr			



cog6	0.153	0.696	0.266
like	0.100		0.200
lan1	0.697	0.198	0.145
abil	0.007 -0.1007	0.100	0.140
	0.592	0.270	0.188
lan1	U.UƏZ	0.270	0.100
adul	0.642	0.235	0.186
lan1	U.04Z	0.233	0.100
cont	0.000	0.070	0.044
lan1i	0.639	0.279	0.214
mpr			
lan1li	0.618	0.064	0.209
ke			
lan2	0.312	0.570	0.495
abil			
lan2	0.263	0.608	0.479
adul			
lan2	0.302	0.603	0.479
cont			·
lan2i	0.293	0.632	0.488
mpr			
lan2li	0.217	0.562	0.549
ke			
lan3	0.156	0.155	0.672
abil			
lan3	0.093	0.219	0.620
adul			
lan3	0.219	0.256	0.615
cont			
		1.,	Section of the second section of the second section of the section of the second section of the section of



lan3i	0.258	0.395	0.515
mpr	0.200	0.000	
lan3li	0.217	0.235	0.623
ke	0.217	0.200	
lan4	0.218	0.340	0.624
abil	0.210	0.540	U.UZT
lan4	0.138	0.285	0.654
	0.130	0.203	0.004
adul	0.040	0.004	0.004
lan4	0.213	0.334	0.681
cont	0.000	0.070	0.500
lan4i	0.260	0.372	0.588
mpr			para y para para para para para para par
lan4li	0.157	0.311	0.667
ke			
lan5	0.070	-0.026	0.826
abil			
lan5	0.058	-0.033	0.845
adul		: i	
lan5	0.028	-0.046	0.838
cont			
lan5i	0.043	-0.011	0.813
mpr			
lan5li	0.066	-0.019	0.838
ke		: : :	
soc1	0.444	0.074	0.121
abil			
soc1	0.415	0.288	0.180
adul			
<u> </u>		<u> </u>	<u> </u>



soc1 0.641 0.119 0.201 cont soc1i 0.549 0.321 0.045 mpr soc1l 0.402 0.064 0.294 ike soc2 0.645 0.026 0.058 abil soc2 0.514 0.388 0.114 adul soc2 0.562 0.220 -0.022 cont soc2i 0.656 0.178 0.067 mpr soc2l 0.418 0.180 0.198 ike soc3 0.662 -0.057 0.056 abil soc3 0.545 0.045 0.141 adul soc3 0.594 0.030 0.228 cont soc3i 0.663 0.159 0.069 mpr soc3i 0.501 -0.001 0.255 ike soc4 0.715 0.191 0.172 abil				
soc1i 0.549 0.321 0.045 mpr 0.402 0.064 0.294 ike 0.026 0.058 abil 0.388 0.114 soc2 0.514 0.388 0.114 adul 0.562 0.220 -0.022 cont 0.656 0.178 0.067 mpr 0.418 0.180 0.198 ike 0.0545 0.057 0.056 abil 0.041 0.045 0.141 adul 0.545 0.045 0.141 adul 0.594 0.030 0.228 cont 0.663 0.159 0.069 mpr 0.0501 -0.001 0.255 ike 0.715 0.191 0.172	soc1	0.641	0.119	0.201
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ike soc2 0.645 0.026 0.058 abil soc2 0.514 0.388 0.114 adul soc2 0.562 0.220 -0.022 cont soc2i 0.656 0.178 0.067 mpr soc2l 0.418 0.180 0.198 ike soc3 0.662 -0.057 0.056 abil soc3 0.545 0.045 0.141 adul soc3 0.594 0.030 0.228 cont soc3i 0.663 0.159 0.069 mpr soc3l 0.501 -0.001 0.255 ike soc4 0.715 0.191 0.172	mpr	14 10		
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ike soc4 0.715 0.191 0.172	mpr			
soc4 0.715 0.191 0.172	soc3l	0.501	-0.001	0.255
	ike			
abil	soc4	0.715	0.191	0.172
	abil			



			0.400
soc4	0.555	0.304	0.162
adul			
soc4	0.759	0.259	0.141
cont			
soc4i	0.628	0.365	0.074
mpr_			
soc4l	0.739	0.229	0.227
ike			
soc5	0.627	0.261	0.155
abil			
soc5	0.705	0.289	0.268
adul			
soc5	0.601	0.344	0.111
cont			
soc5i	0.631	0.389	0.089
mpr	t ett et e		
soc5l	0.549	0.227	0.387
ike			
crt1a	0.739	0.014	0.100
bil			
crt1a	0.385	0.224	0.116
dul			
crt1c	0.652	0.318	0.040
ont			
crt1i	0.670	0.180	0.003
mpr		·	
crt1li	0.724	-0.015	0.087
ke			



- 40 -	0.407	0.266	0.245
	0.467	0.366	-0.245
bil			0.400
crt2a	0.460	0.266	-0.169
dul	firm i		
crt2c	0.543	0.522	-0.087
ont			
crt2i	0.527	0.403	0.042
mpr			
crt2li	0.545	0.194	-0.059
ke			
crt3a	0.509	0.234	-0.138
bil	144		
crt3a	0.287	0.386	-0.116
dul			
crt3c	0.526	0.379	0.034
ont			
crt3i	0.558	0.417	-0.007
mpr			
crt3li	0.454	0.156	-0.053
ke			
crt4a	0.408	0.123	0.035
bil			
crt4a	0.433	0.378	0.029
dul			
crt4c	0.353	0.076	0.167
ont			
crt4i	0.646	0.253	0.080
mpr			



crt4li	0.432	0.078	0.185
ke			
crt5a	0.575	0.144	0.202
bil			
crt5a	0.360	0.367	0.207
dul			
crt5c	0.585	0.140	0.201
ont			
crt5i	0:562	0.274	0.269
mpr			
crt5li	0.572	0.077	0.285
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